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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590

07/15/2008

OBLON, SPIVAK, MCCLELLAND MAJER & NEUSTADT, P.C.

EXAMINER JIANG, CHEN WEN

PAPER NUMBER

ARTHNIT 3744 DATE MAILED: 07/15/2008

1940 DUKE STREET ALEXANDRIA, VA 22314

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/518 087 12/16/2004 Fujio Inoue 261277US90PCT 5524 TITLE OF INVENTION: THERMOSTAT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/15/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correct maintenance fee notifica	form should be used : correspondence includi ed below or directed of tions.	for transmitting the ng the Patent, advan herwise in Block 1,	ISSUE FEE and PUBLIC ce orders and notification by (a) specifying a new co				
CURRENT CORRESPOND 22850	ENCE ADDRESS (Note: Use B	lock 1 for any change of adi 5/2008		sapers. Each addition tave its own certificat	e of ma	r, such as an assignmer illing or transmission.	domestic mailings of the or any other accompanying to r formal drawing, must
	'AK, MCCLELLA REET		λ NEUSTADT, P.C.	baraby cartify that the	rie Good	e of Mailing or Transm (s) Transmittal is being fficient postage for first ISSUE FEE address (71) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
			[(Depositor's name)
							(Signature)
							(Dute)
APPLICATION NO.	FILING DATE	.	FIRST NAMED INVENT	OR	ATTORNEY DOCKET NO. CONFIRMATIO		CONFIRMATION NO.
10/518,087 TITLE OF INVENTION	12/16/2004 T: THERMOSTAT		Fujio Inoue		2	61277US90PCT	5524
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	10/15/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7			
JIANG, CI	HEN WEN	3744	236-I0I00C	_			
"Fee Address" ind PTO/SB/47; Rev 03-1 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attacl ND RESIDENCE DAT. less an assignee is ident h in 37 CFR 3.11. Com	inge of Corresponder "Indication form and Use of a Custon A TO BE PRINTED	(I) the names of u or agents OR, alter (2) the name of a s	ngle firm (having as or agent) and the nan attorneys or agents. It be printed. type) e patent. If an assign an assignment.	a memb nes of u no nan	oper a 2	cument has been filed for
Please check the appropriate 4a. The following fee(s) I ssue Fee		r categories (will not	be printed on the patent): 4b. Payment of Fee(s): (i	Please first reapply a	•		up entity Government
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			Payment by credit	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
- 11	s SMALL ENTITY stat	us. See 37 CFR 1.27.				TITY status. See 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be acc ites Patent and Trade	cepted from anyone other th mark Office.	in the applicant; a reg	istered	attorney or agent; or the	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450. Alexandria	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu (irginia 22313-1450). De-	CFR 1.311. The infor U.S.C. 122 and 37 USPTO. Time will rden, should be sent	mation is required to obtain CFR 1.14. This collection is vary depending upon the it to the Chief Information OI OR COMPLETED FORMS	or retain a benefit by estimated to take 12 idividual case. Any c ficer, U.S. Patent and TO THIS ADDRES	the pub minute ommen Trader	lic which is to file (and s to complete, including ts on the amount of tin mark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O.

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DATE MAILED: 07/15/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/518,087	12/16/2004	Fujio Inoue	261277US90PCT	5524
22850	7590 07/15/2008	EXAMINER		UNER
OBLON, SPIVA	K, MCCLELLAND	JIANG, CHEN WEN		
1940 DUKE STR	EET		ART UNIT	PAPER NUMBER
ALEXANDRIA,	VA 22314	2744		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 556 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 556 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/518,087	INOUE, FUJIO	
Examiner	Art Unit	
Chen-Wen liens	3744	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to amendment filed 6/20/2008.
- 2. The allowed claim(s) is/are 5-7 and 10.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. \(\subseteq \text{ Certified copies of the priority documents have been received.} \)
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

Application/Control Number: 10/518,087 Page 2

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: In regard to claim 5, the prior art of record when considered as a whole, alone or in combination, neither anticipates nor renders obvious a thermostat comprising first valve, a second valve, and an operating member which operates in accordance with a temperature change of a fluid and in conjunction with the first and second valve discs to move integrally such that one of the first fluid channel and second fluid channel is opened and the other one of the first fluid channel and second fluid channel is closed, and the operating member in a freely slidable manner is provided to a main frame of the thermostat device, an opening to be opened and closed at one end of the case is provided to a part of the cylindrical portion, and one end of the case is made to be the second valve disc.

In regard to claim 10, the prior art of record when considered as a whole, alone or in combination, neither anticipates nor renders obvious a thermostat comprising first valve, a second valve, and an operating member which operates in accordance with a temperature change of a fluid and in conjunction with the first and second valve discs to move integrally such that one of the first fluid channel and second fluid channel is opened and the other one of the first fluid channel and second fluid channel is closed, and the main frame has a cylindrical portion for retaining one end of the case of the operating member in a freely slidable manner, and the cylindrical portion has an opening to be opened and closed by the one end of the case.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Application/Control Number: 10/518,087 Page 3

Art Unit: 3744

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the 2.

examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809.

The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chen-Wen Jiang/ Primary Examiner, Art Unit 3744